

# LANGUAGE GROUP

## □ 1. Famous Literary Personalities & Their Works

- **Bengali:** Rabindranath Tagore, Sarat Chandra Chattopadhyay
  - **English:** William Shakespeare, Charles Dickens
  - **Sanskrit:** Kalidasa, Panini
  - **Santali:** Pandit Raghunath Murmu (creator of Ol Chiki script)
    - *E-content idea:* A PPT/Video with short biography, famous works, images, and audio recitations.
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## □ 2. Grammar and Language Skills

- Parts of Speech (common across all languages)
  - Sentence Formation
  - Vocabulary Building (synonyms, antonyms, idioms)
    - *E-content idea:* Interactive quiz slides, examples in all four languages.
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## □ 3. Folk Literature and Culture

- Bengali folk songs & Baul tradition
  - English ballads & nursery rhymes
  - Sanskrit subhashitas (wise sayings)
  - Santali folk tales & traditional songs
    - *E-content idea:* Collect audio clips, short stories, and create a multimedia comparison.
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## □ 4. Translation & Comparative Literature

- Same poem or proverb expressed in different languages.  
Example: *Motherland* theme in Bengali (Janani Janmabhoomischa), English (My Country), Santali songs, Sanskrit shlokas.  
☐ *E-content idea*: Side-by-side presentation with text + audio narration in each language.
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## ☐ 5. Poetry Recitation & Storytelling

- Prepare short poems in Bengali, English, Sanskrit, and Santali.
  - Record **audio/video recitation** in each language.  
☐ *E-content idea*: A single e-content file with clickable audio buttons for each language.
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# SOCIAL SCIENCE GROUP

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## ☐ 1. Indian Freedom Struggle (Interdisciplinary)

- **History**: Events like Revolt of 1857, Non-Cooperation Movement, Quit India.
  - **Political Science**: Role of leaders and Indian National Congress.
  - **Economics**: Impact of colonial policies on Indian economy.
  - **Philosophy**: Gandhian philosophy of non-violence (Ahimsa, Satyagraha).
  - **Education**: Nationalist leaders' emphasis on indigenous education.  
☐ *E-content idea*: A timeline PPT with maps, leader biographies, archival photos, and audio clips of patriotic songs.
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## ☐ 2. Sustainable Development & Climate Change

- **Geography:** Global warming, deforestation, environmental changes.
  - **Economics:** Green economy, renewable energy, sustainable growth.
  - **Political Science:** Government policies, UN climate summits.
  - **Philosophy:** Human responsibility towards nature.
  - **Education:** Role of environmental education in schools.
    - *E-content idea:* Animated PPT with climate maps, bar graphs, images of renewable energy, and case studies from India.
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### □ 3. Indian Constitution & Democracy

- **History:** Freedom movement and Constituent Assembly debates.
  - **Political Science:** Fundamental Rights, Duties, Federalism.
  - **Economics:** Impact of democratic policies on economic growth.
  - **Philosophy:** Liberty, Equality, Justice – philosophical basis of Constitution.
  - **Education:** Importance of teaching civic responsibility.
    - *E-content idea:* Interactive PPT with excerpts from Constitution, flowcharts of government structure, and videos on elections.
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### □ 4. Industrial Revolution & Its Impact

- **History:** Development in Britain, spread to India.
  - **Geography:** Growth of industrial regions, urbanization.
  - **Economics:** Capitalism, trade, labor movements.
  - **Political Science:** Rise of new political ideologies (Socialism, Communism).
  - **Philosophy:** Human progress vs. exploitation debate.
  - **Education:** Rise of technical/vocational education.
    - *E-content idea:* Timeline with images of factories, maps, animated charts of economic growth, videos of modern industry.
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### □ 5. Globalization and Its Effects

- **History:** Growth of international trade since 20th century.
  - **Geography:** Migration, urbanization, world connectivity.
  - **Economics:** Liberalization, WTO, global trade.
  - **Political Science:** Role of international organizations (UN, IMF).
  - **Philosophy:** Debate on cultural homogenization vs. diversity.
  - **Education:** Online learning, digital divide, role of ICT in education.
    - *E-content idea:* PPT with trade maps, statistical graphs, case studies, video clips of globalization impact.
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## SCIENCE GROUP

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### □ 1. Human Body & Artificial Intelligence

- **Life Science:** Nervous system, brain functioning.
  - **Physical Science:** Electrical impulses, sensors, robotics.
  - **Computer Science:** AI, neural networks, brain–computer interface.
    - *E-content idea:* Multimedia PPT with brain diagrams, AI robot videos, comparison of natural vs. artificial intelligence.
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### □ 2. Renewable Energy and Technology

- **Life Science:** Impact of clean energy on ecosystems.
  - **Physical Science:** Solar panels, wind turbines, nuclear fusion basics.
  - **Computer Science:** Smart grids, IoT in energy management.
    - *E-content idea:* Animated PPT with solar/wind maps, working models, and case studies of India's renewable energy projects.
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### □ 3. Space Exploration: From Biology to Technology

- **Life Science:** Human survival in space (astronauts, food, health).
  - **Physical Science:** Gravity, rockets, satellite orbits.
  - **Computer Science:** Space simulations, satellite communication, GPS.
    - *E-content idea:* PPT with NASA/ISRO images, video clips of rockets, interactive orbit models.
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#### □ 4. The Water Cycle & Technology in Water Management

- **Life Science:** Role of water in plants and animals.
  - **Physical Science:** States of matter, evaporation, condensation.
  - **Computer Science:** Smart water management systems, sensors, AI forecasting.
    - *E-content idea:* PPT with animated water cycle, experiments, and modern water-saving technologies.
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#### □ 5. COVID-19 Pandemic: A Scientific Perspective

- **Life Science:** Virus structure, immunity, vaccines.
  - **Physical Science:** Use of sanitizers, masks, oxygen therapy.
  - **Computer Science:** Online education, data tracking, vaccine software systems.
    - *E-content idea:* PPT with diagrams of virus, vaccine process, infographics on online learning during lockdown.
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## MATHEMATICS GROUP

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#### □ 1. Geometry in Real Life

- Explaining **triangles, circles, polygons** with real-world examples (bridges, buildings, wheels).

- Use of **animations** to show angle properties, theorems, and constructions.
    - *E-content idea:* PPT/Video with real-life images + animated diagrams.
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## □ 2. Introduction to Trigonometry

- Relation between **sine, cosine, tangent** with right-angled triangles.
  - Real-life applications: measuring height of a tree/building, navigation.
    - *E-content idea:* Interactive PPT with animated triangles, step-by-step calculation, and real-world photos.
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## □ 3. Statistics and Data Handling

- Representing data through **bar graphs, pie charts, histograms**.
  - Applications in **economics, education, health, and sports**.
    - *E-content idea:* PPT with sample data (like class test marks), graphs generated in Excel, interactive quiz questions.
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## □ 4. Mensuration & 3D Shapes

- Explaining surface area and volume of **cube, cuboid, cylinder, cone, sphere**.
  - Real-life applications (paint required for a wall, water in a tank, etc.).
    - *E-content idea:* PPT with rotating 3D models and practical problem-solving.
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## □ 5. Probability in Daily Life

- Concept of chance and likelihood.

- Real-life examples: coin toss, dice games, weather forecast.
    - *E-content idea:* PPT with animations of coin flips/dice rolls + probability calculation.
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## □ 6. Coordinate Geometry

- Explaining Cartesian plane, plotting points, distance formula.
  - Applications in maps, GPS, and computer graphics.
    - *E-content idea:* PPT with animated plotting of points and interactive grid exercises.
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# Commerce

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## □ 1. Introduction to Accounting

- Basics of **assets, liabilities, income, expenses**.
  - Explaining **Debit–Credit system** with animations.
    - *E-content idea:* Animated ledger entries, real-life examples like shop accounts.
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## □ 2. Banking and Digital Transactions

- Functions of banks (savings, loans, payments).
  - Digital banking: UPI, Net banking, Mobile wallets.
    - *E-content idea:* PPT with flowcharts, demo screenshots, advantages & risks.
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## □ 3. Business Studies – Principles of Management

- Fayol's & Taylor's principles.

- Applications in schools, shops, industries.
    - *E-content idea*: Case studies with visuals of factories, offices, teamwork examples.
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#### □ 4. Trade and Commerce

- Difference between **Internal Trade & External Trade**.
  - Examples: markets in West Bengal, exports like tea & jute.
    - *E-content idea*: Maps, flowcharts, export–import data visualization.
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#### □ 5. Entrepreneurship Development

- Characteristics of an entrepreneur.
  - Success stories: Ratan Tata, Narayana Murthy, small start-ups.
    - *E-content idea*: PPT with inspirational images, business model canvas, videos of young entrepreneurs.
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#### □ 6. Economics in Daily Life

- Demand & supply, inflation, GST, e-commerce.
  - Simple examples (price of vegetables, online shopping discounts).
    - *E-content idea*: Graph animations showing demand–supply curves.
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#### □ 7. Marketing and Advertising

- 4Ps of marketing: Product, Price, Place, Promotion.
  - Real-world advertisements & branding examples.
    - *E-content idea*: Video ads + PPT analysis of marketing strategies.
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